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1998:608601

129:216521

Preparation of 1-isoquinolinone-3-carboxylates

as PDE V inhibitors

Ukita, Tatsuzo; Omori, Kenji; Ikeo, Tomihiro

Tanabe Seiyaku Co., Ltd., Japan PCT Int. Appl., 299 pp.

CODEN: PIXXD2

Patent English

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OTHER SOURCE(S):

MARPAT 129:216521

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AB Title compds. [I; R = H or substituent(s); R1 = H, NH2, (cyclo)alkyl, heterocyclyl, aryl, etc.; R2 = (esterified) CO2H, CONH2, N-attached heterocyclylcarbonyl, etc.; R3 = (un)substituted

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Ph) were prepared as PDE V inhibitors (no data). Thus, 5-benzyloxy-4-methoxy-2-(3,4,5-trimethoxybenzoyl)benzoic acid was cyclocondensed with CH2(CO2CMe3)2 and the hydrated product cyclocondensed with 4-(H2N)C6H4NHCO2CMe3 to give, in 4 addnl. steps, title compound II [R1 = C6H4(NH2)-4, R3 = C6H2(OMe)3-3,4,5, R4 = 2-pyridylmethoxy].

IT 212498-74-3P 212499-20-2P 212499-85-9P 212500-32-8P 212500-49-7P 212500-73-7P

(preparation of 1-isoquinolinone-3-carboxylates as PDE V inhibitors)

RN 212498-74-3 HCAPLUS

CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-6-methoxy-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester, trihydrochloride (9CI) (CA INDEX NAME)

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$$\begin{array}{c|c} \text{OMe} \\ \text{MeO} & \text{OMe} \\ \\ \text{N} & \text{OMe} \\ \\ \text{O} & \text{OMe} \\ \\ \text{N} & \text{N} & \text{N} & \text{N} \\ \\ \text{O} & \text{N} & \text{N} & \text{N} \\ \\ \text{N} & \text{N} & \text{N} & \text{N} \\ \\ \text{O} & \text{N} & \text{N} & \text{N} \\ \\ \text{N} & \text{N} & \text{N} & \text{N} \\ \\ \text{N} & \text{N} & \text{N} & \text{N} \\ \\ \text{N} & \text{N} & \text{N} & \text{N} \\ \\ \text{N} & \text{N} & \text{N} & \text{N} \\ \\ \text{N} & \text{N} & \text{N} & \text{N} \\ \\ \text{N} & \text{N} & \text{N} & \text{N} \\ \\ \text{N} & \text{N} & \text{N} & \text{N} \\ \\ \text{N} & \text{N} & \text{N} & \text{N} \\ \\ \text{N} & \text{N} & \text{N} & \text{N} \\ \\ \text{N} & \text{N} & \text{N}$$

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●3 HC1

RN 212499-20-2 HCAPLUS
CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester, trihydrochloride (9CI) (CIINDEX NAME)

PAGE 1-A

$$\begin{array}{c|c} \text{OMe} \\ \text{MeO} & \text{OMe} \\ \\ \text{H}_2\text{N} & \text{O} & \text{CH}_2 \\ \\ \text{O} & \text{NH}_2 \\ \end{array}$$

PAGE 2-A

●3 HCl

RN 212499-85-9 HCAPLUS
CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-4-(3,5-dimethoxy-4-methylphenyl)-1,2-dihydro-1-oxo-, methyl ester, trihydrochloride (9CI) (CA INDEX

NAME)

PAGE 1-A

$$\begin{array}{c} \text{MeO} \\ \text{MeO} \\ \text{O} \\ \text{O} \\ \text{O} \\ \text{O} \\ \text{O} \\ \text{NH}_2 \\ \text{NH}_2 \\ \text{NH}_2 \\ \text{O} \\ \text{O$$

PAGE 2-A

●3 HCl

RN 212500-32-8 HCAPLUS
CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-6-methoxy-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester (9CI) (CA INDEX NAME)

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RN 212500-49-7 HCAPLUS

CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-1,2-dihydro-1-oxo-4-(3,4,5-trimethoxyphenyl)-, methyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{OMe} \\ \text{MeO} & \text{OMe} \\ \\ \text{H}_2\text{N} & \text{O} & \text{CH}_2 \\ \\ \text{O} & \text{NH}_2 \\ \end{array}$$

RN 212500-73-7 HCAPLUS

CN 3-Isoquinolinecarboxylic acid, 2-(4-aminophenyl)-7-[(3,5-diaminophenyl)methoxy]-4-(3,5-dimethoxy-4-methylphenyl)-1,2-dihydro-1-oxo-, methyl ester (9CI) (CA INDEX NAME)

$$H_2N$$
 $R$ 
 $NH_2$ 
 $NH_2$ 

IC ICM C07D217-26 ICS A61K031-47; C07D401-12; C07D409-12; C07D401-04; C07D401-06;

USHA SHRESTHA EIC 1600 REM 1A64